

Please amend claims 2, 4, 8, 9, 12, 14 and 15 as follows:

(Twice Amended) A recombinant expression cassette comprising the 2. polynucleotide of claim 12 operably linked to a promoter.

(Amended) A transgenic plant comprising the recombinant expression 4. cassette of claim 2.

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8. (Amended) A transgenic seed from the transgenic plant of claim 4, wherein the seed comprises the recombinant expression cassette.

(Twice Amended) A method of modulating the level of RAD51C in a plant, comprising:

(a)

introducing into a plant cell a recombinant expression cassette comprising the polynucleotide of claim 12 operably linked to a promoter;

- culturing the plant cell under plant cell growing conditions; (b)
- regenerating a whole plant which possesses the transformed (c) genotype; and
- induding expression of said polynucleotide for a time sufficient to (d) modulate the level of RAD51C in said plant.

(Amended) An isolated polynucleotide selected from the group consisting of:

a nucleic acid sequence having at least 90% sequence identity over the entire length of SEQ ID NO: 1, as determined by the GAP program under default parameters, wherein said sequence encodes a polypeptide which participates in a complex which enhances recombinase activity; and



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(b) a nucleic acid sequence which is fully complementary to the nucleic acid sequence of (a).

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(Amended) An isolated polynucleotide comprising a nucleic acid sequence which selectively hybridizes to the full-length complement of SEQ ID NO: 1 under stringent hybridization conditions and a wash in 0.1X SSC at 60°C, wherein stringent hybridization conditions comprise 50% formamide, 1M NaCl, and 1% SDS at 37°C, and wherein the sequence encodes a polypeptide which participates in a complex which enhances recombinase activity.

15. (Amended) An isolated polynucleotide comprising at least 50 contiguous nucleotides from the polynucleotide of SEQ ID NO: 1.

Please add new claims 16-35 as follows:

- -16. The isolated polynucleotide of claim 12, wherein the nucleic acid sequence of(a) has at least 95% sequence identity to SEQ ID NO: 1.
- 17. The isolated polynucleotide of claim 12, wherein the polynucleotide is SEQ ID NO: 1.
 - A recombinant expression cassette comprising the polynucleotide of claim 14 operably linked to a promoter.
 - A host cell comprising the recombinant expression cassette of claim 18.
 - 20. A transgenic plant comprising the recombinant expression cassette of claim18.

- 21. The transgenic plant of claim 20, wherein said plant is a monocot.
- 22. The transgenic plant of claim 20, wherein said plant is a dicot.
- 23. The transgenic plant of claim 20, wherein said plant is selected from the group consisting of maize, soybean, sunflower, sorghum, canola, wheat, alfalfa, cotton, rice, barley, and millet.
- 24. A transgenic seed from the plant of claim 20, wherein the seed comprises the recombinant expression cassette.

An isolated polynucleotide comprising a member selected from the group consisting of:

a nucleic acid sequence encoding a polypeptide having at least 90% sequence identity over the entire length of SEQ ID NO: 2, as determined by the GAP algorithm under default parameters, wherein the encoded polypeptide participates in a complex which enhances recombinase activity; and

- (b) a nucleic acid sequence which is fully complementary to the nucleic acid sequence of (a).
- 26. The isolated polynucleotide of claim 25, wherein the nucleic acid sequence of (a) encodes a polypeptide having at least 95% sequence identity to SEQ ID NO: 2.
- 27. The isolated polynucleotide of claim 25, wherein the nucleic acid sequence of(a) encodes the polypeptide of SEQ ID NO: 2.

- 28. A recombinant expression cassette comprising the polynucleotide of claim 25 operably linked to a promoter.
- 29. A host cell comprising the recombinant expression cassette of claim 28.
- A transgenic plant comprising the recombinant expression cassette of claim
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- 31. The transgenic plant of claim 30, wherein said plant is a monocot.
- 32. The transgenic plant of claim 30, wherein said plant is a dicot.
- 33. The transgenic plant of claim 30, wherein said plant is selected from the group consisting of maize, soybean, sunflower, sorghum, canola, wheat, alfalfa, cotton, rice, barley, and millet.
- 34. A transgenic seed from the plant of claim 30, wherein the seed comprises the recombinant expression cassette.
- 35. An isolated polynucleotide comprising a nucleic acid sequence which encodes at least 25 contiguous amino acids of SEQ ID NO: 2.--